



(11) **EP 0 697 501 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**23.07.1997 Bulletin 1997/30**

(51) Int Cl.<sup>6</sup>: **E21B 49/00, E21B 33/127,  
E21B 47/00, E21B 47/06,  
E21B 49/08**

(43) Date of publication A2:  
**21.02.1996 Bulletin 1996/08**

(21) Application number: **95305677.7**

(22) Date of filing: **15.08.1995**

(84) Designated Contracting States:  
**DE FR GB NL**

(30) Priority: **15.08.1994 US 292341**

(71) Applicant: **HALLIBURTON COMPANY**  
**Dallas, Texas 75381-9052 (US)**

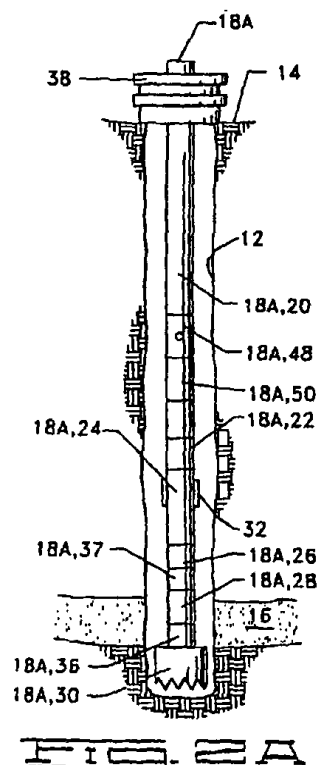
(72) Inventors:  
• **Schultz, Roger L.**  
**Stillwater, Oklahoma 74074 (US)**  
• **Ringgenberg, Paul D.**  
**Carrollton, Texas 75006 (US)**

• **Beck, Harold Kent**  
**Copper Canyon, Texas 75067 (US)**  
• **Clark, J. Allan**  
**Southlake, Texas 76092 (US)**  
• **Manke, Kevin R.**  
**Flower Mound, Texas 75028 (US)**

(74) Representative: **Wain, Christopher Paul et al**  
**A.A. THORNTON & CO.**  
**Northumberland House**  
**303-306 High Holborn**  
**London WC1V 7LE (GB)**

(54) **Integrated well drilling and formation evaluation system**

(57) Integrated drilling and evaluation system for drilling, logging and testing a well comprises a drill string (18A), a drill bit (30) carried on a lower end of the drill string for drilling a well bore, logging while drilling means (28) included in the drill string for identifying subsurface zones of formations (16) of interest, packer means (24) carried on the drill string above the drill bit (30) for sealing a zone or formation (16) of interest below the packer means (24), and a fluid testing means (22) included in the drill string for controlling the flow of well fluid from the zone or formation of interest into the drill string. The system allows one or more subsurface zones or formations (16) of interest in a well to be drilled, logged and tested without the necessity of removing the drill string (18A) from the well.



**EP 0 697 501 A3**



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 95 30 5677

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
A	GB 2 125 085 A (EASTMAN WHIPSTOCK INC) * abstract * * page 1, line 42 - line 85 * * page 2, line 6 - line 26 * ---	1,2,6-8, 10	E21B49/00 E21B33/127 E21B47/00 E21B47/06 E21B49/08
E	US 5 443 129 A (BAILEY THOMAS F ET AL) * abstract * * column 2, line 44 - column 3, line 2 * * column 3, line 35 - column 4, line 13 * * claims 1,3 * -----	1,2,6-8	
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			E21B
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 15 May 1997	Examiner Schaeffler, C
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application I : document cited for other reasons</p> <p>&amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 (01/91) (P04/C01)